

CC expressed which is secreted by the host cell rather than bound to is
 XX membrane.

SQ Sequence 3072 BP; 689 A; 928 C; 890 G; 565 T; 0 other;

alignment_scores:

Quality: 4553.00 Length: 848
 Ratio: 5.382 Gaps: 0
 Percent Similarity: 99.764 Percent Identity: 99.646

alignment_block:

US-08-482-402a-3_copy_1_848 x AAQ37493 ..

Align seg 1/1 to: AAQ37493 from: 1 to: 3072

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 17 uAlaPhePheProPheIleSerArgGlyLysGluLeuLeuTrpGlyLysP 34
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 34 roGluGluSerArgValSerSerValLeuGluGluSerLysArgLeuVal 50
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 51 AspThrAlaMetTyrAlaThrMetGlnArgAsnLeuLysLysArgGlyI 67
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 235 GACACCGCATGTACGCCACCATCGAGAGAAACCTCAAGAAAGAGGAAT 284
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 67 eLeuSerGlyAlaGlnLeuLeuSerPheSerLysLeuProGluProThrS 84
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 285 CCTTCTGGAGCTCAGGTCTGTCTTTTCCAAACTTCTCAGGCCAACAA 334
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 84 erGlyValIleAlaArgAlaAlaGluIleMetGluThrSerIleGlnAla 100
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 335 CGCGAGTGATTGCCCGAGCAGCAGAGATAATGTGAAACATCAATCAAGCG 384
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 101 MetLysArgLysValAsnLeuLysThrGlnGlnSerGlnHisProThrAs 117
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 385 ATGAAAGAAAGTCAACCTGAAACCTCAACAATCACAGCATCCAACGGA 434
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 117 pAlaLeuSerGluAspLeuLeuSerIleIleAlaAsnMetSerGlyCysL 134
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 435 TGCCTTATCAGAAATCTGCTGACATCATTTGCAACATGTCTGATGTC 484
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 134 euProTyrMetLeuProProLysCysProAsnThrCysLeuAlaAsnLys 150
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 151 TyrArgProIleThrGlyAlaCysAsnAsnArgAspHisProArgTrpG1 167
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 201 ProLeuProProValArgGluValThrArgHisValIleGlnValSerAs 217
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[illegible]

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417	uAlaAlaAlaLeuLysAlaLeuAsnAlaHisTrpSerAlaAspAlaValT	434
1323	GGCGCGGGCGCTCAAGGCCCTCAATGCGCACTGGAGCGCGAGCCGCTGT	1372
434	yrGlnGluAlaArgLysValValGlyAlaLeuHisGlnIleIleThrLeu	450
1373	ACCAAGAGCGCGCAAGGTCGTGGCGCTCTGCACCAAGATCATCACCCCTG	1422
451	ArgAspTrpIleProArgIleLeuGlyProGluAlaPheGlnGlnTrpVal	467
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467	IGlyProTrpGluGlyTrpAspSerThrAlaAsnProThrValSerAsnV	484
1473	GGGTCCCTATGAGGCTATGACTCCACCGCCCAACCCCACTGTGTCCAACG	1522
484	alPheSerThrAlaAlaPheArgPheGlyHisAlaThrIleHisProLeu	500
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501	ValArgArgLeuAspAlaSerPheGlnGluHisProAspLeuProGlyLe	517
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634	alTrpLeuGlyGlyLeuAlaGluAsnPheLeuProArgAlaArgThrGly	650
1973	TC7GGCTGGGAGGCTTAGCTGAAACTTTCCTCCCGAGGGCTCGGACAGG	2022
651	ProLeuPheAlaCysLeuIleGlyLysGlnMetLysAlaLeuArgAspGly	667
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seq_documentation_block:
ID AAX37301 standard; DNA; 2546 BP.
XX
AC AAX37301;

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XX 02-JUL-1999 (first entry)
 XX Human thyroid peroxidase hTPO DNA.
 DE
 DE Thyroid peroxidase; hTPO; antigen; antibody; anti-human; diagnosis;
 KW thyroid disease; severe myasthenia; lupoid hepatitis;
 KW insulin dependent pediatric diabetes; ss.
 OS
 XX Homo sapiens.
 XX
 PN JP11094833-A.
 XX
 XX 09-APR-1999.
 XX
 PF 19-SEP-1997; 97JP-0273743.
 XX
 PR 19-SEP-1997; 97JP-0273743.
 XX
 PA (SRLS-) SRL KK.
 XX
 XX WPI: 1999-291616/25.
 DR P-PSDB; AAY07733.
 DR
 XX New antigen for immunological determination of anti-human thyroid
 PT peroxidase antibody - and recombinant human thyroid peroxidase
 PT
 XX Claim 7; Page 7-10; 12pp; Japanese.
 PS
 XX This invention describes a novel antigen useful for immunological
 CC determination of anti-human thyroid peroxidase (hTPO) antibody with
 CC antigen-antibody reaction. The hTPO antibody is prepared by expression
 CC of nucleic acid(s) prepared by substitution, deletion or addition or
 CC insertion of one or more bases to the gene, particularly with deleted
 CC membrane penetrating area and having molecular wt. of 100 kd, and
 CC expressed in insect cells, optionally having a mannose type sugar chain.
 CC The antigen is useful for the diagnosis of thyroid diseases and severe
 CC myasthenia, lupoid hepatitis, and insulin dependent pediatric diabetes.
 XX
 SQ Sequence 2546 BP; 542 A; 804 C; 725 G; 475 T; 0 other;

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 Quality: 4495.00 Length: 848
 Ratio: 5.338 Gaps: 0
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AC AA040728;
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AC
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DT 17-JUN-1993 (first entry)
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DE Human TPO gene lacking bases 2221-2247.
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KW Disease associated B-cell epitope; human thyroid peroxidase;
KW diagnosis; immune diseases; Hashimoto's thyroiditis;
KW mutant; mutation; ss.
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DR WPI; 1993-076503/09.
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seq_documentation_block:

ID AAT66437 standard; DNA; 3215 BP.

XX AC AAT66437;

XX XX 27-JUN-1997 (first entry)

XX DE Myeloperoxidase coding sequence.

XX XX Myeloperoxidase; lectin-binding activity; antibacterial; antiviral;
KW peroxidase; peripheral blood; bone marrow; ss.

XX OS Homo sapiens.

XX XX Key Location/Qualifiers
FT CDS 178..2415
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FT /product= Myeloperoxidase

XX XX JP09047286-A.

XX XX 18-FEB-1997.

XX XX 08-AUG-1995; 95JP-0222601.

XX XX 08-AUG-1995; 95JP-0222601.

XX XX (SRLS-) SRL KK.

XX XX WPI; 1997-186990/17.

XX XX P-PSDB; AAW17800.

XX XX Myeloperoxidase useful in antibacterial and antiviral agents -
PT comprises glyco-protein contg. a specified amino acid sequence and
PT having lectin-combining nature

XX XX Disclosure; Page 11-14; 15pp; Japanese.

XX CC This sequence encodes myeloperoxidase. The mature protein portion from
CC residues 156-745 has a molecular weight measured by SDS-PAGE of 90000
CC Dalton and an optimum pH of 6. It has lectin-combining activity and
CC the ratio of absorbance at 430 nm to that at 280 nm is 0.61. The
CC myeloperoxidase has antibacterial activity and antiviral activity.

CC CC It also has peroxidase activity. The new myeloperoxidase has a wide
CC antibacterial and antiviral spectrum. The protein was isolated from
CC the peripheral blood of a bone marrow abnormal formation syndrome
CC patient.

XX SQ Sequence 3215 BP; 652 A; 949 C; 933 G; 681 T; 0 other;

alignment_scores:

Quality: 1575.50 Length: 749

Ratio: 3.018 Gaps: 11

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seq_documentation_block:
ID AAF20923 standard; DNA; 2558 BP.
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AC AAF20923;
XX
DT 14-MAR-2001 (first entry)
XX
DE Human eosinophil peroxidase polynucleotide fragment #2490.
XX
KW Low adenosine antitense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antialsthamtic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX
OS Homo sapiens.
XX
PN W0200062736-A2.
XX
PD 26-OCT-2000.
XX
PF 24-MAR-2000; 2000WO-US08020.
XX
PR 06-APR-1999; 99US-0127958.
XX
PA (UYEC-) UNIV EAST CAROLINA.
XX
PI NYCE J W.
XX
PI Nyce JW;
XX
PS WPI; 2000-679539/66.
XX
DR
XX
PT Low adenosine (A) content antisense oligonucleotides which do not
PT trigger adenosine receptors during metabolism, useful e.g. for treating
PT cancers and respiratory obstructions -
XX
PS Disclosure; Page 144-145; 1592pp; English.
XX
CC The present invention describes low adenosine (A) content antisense
CC oligonucleotides and compositions (I) comprising them. In the antisense
CC oligonucleotides the A is replaced by a 'universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antialsthamtic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central

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DE	human adenosine receptor	related polynucleotide seq ID NO:2490.
XX	XX	
KW	Human; adenosine receptor; low adenosine antisense oligonucleotide; phosphorothioate; impaired respiration; inflammation; allergy;	
KW		

32 GlyLysProGluGluSerArgValSerSerValLeuGluLysSerLysAr 48
 49 GGGGCACTGGAGACCTCGGTCTCGGAGACTGCATAGCAGAGGCCAAGTT 98

48 gLeuValAspThrAlaMetTyrAlaThrMetGlnArgAsnLeuLysLysA 65
99 GCTGGTGGATGCTGCC...TACAATGGACCAAGAGAGCATCAAGCAGC 145
65 rg.....GlyIleLeuSerGlyAlaGlnLeuLeuSerPheSerLys 78
146 GCCTTCGACGGGTTCAGCCAGCCCATGGACCTCCTGCTACTTCAAA 195
79 LeuProGluProThrSerGlyValIleAlaArgAlaGluIleMetG1 95
196 CAACCGGTAGCAGCCACGACGACAGTGTTCGGCCGCGAGATTATATGCA 245
95 uThrSerIleGlnAlaMetLysArgLysValAsnLeuLysThrGlnGlns 112
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112 erGlnHisProThrAspAlaLeuSerGluAspLeuLeuSerIleIleAla 128
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346 CAGGCCAGTGGCTGCTCTCCGGACACCGCGCGCTGC..... 387
145 rCysLeuAlaAsnLysTyrArgProIleThrGlyAlaCysAsnArgA 162
388AGCGACAAGTACCACCATCCTGGACGTGGACGTGCAACAAGA 430
162 spHisProArgTyrGlyAlaSerAsnThrAlaLeuAlaArgTrpLeuPro 178
431 GGAGACCCCTTGCTAGGGGCCCTCAACACGAGCTCGGCTCGCTGGCTGCC 480
179 ProValTyrGluAspGlyPheSerGlnProArgGlyTrpAsnProGlyPh 195
481 GCCAGTATGAGGATGGCTGCTCCCTCCCTCGGCTGGACCCCGCAGCAG 530
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212 alIleGlnValSerAsnGluValValThrAspAspArgTyrSerAsp 228
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1809 GATTGGGGCCATCGTGTAGCCTCTTTTCCGGGGGCTCGAGTGGGGCCTC 1858
652 euPheAlaCysLeuIleGlySerMetLysAlaLeuArgAspGlyAsp 668
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
1859 TTCTGGCTGTCTGTCGAGAACCACTTCAGAGAGC.CGAGACGGAGAC 1907
669 TrpPheTrpTrpGluAsnSerHisValPheThr.AspAlaGlnArgArg 685
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
1908 AGTCTTGTGGTGCGAGAAC...GAGGTGTTTTCACCAAGACAGCGCAAG 1954
685 luLeuGluLysHisSerLeuSerArgValIleCysAspAsnThrGlyLeu 701
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
1955 CCTGAGCAGAAATTCCTTGTCTCGAATTATATGTGACATACCGGTATC 2004
702 ThrArgValProMetAspAlaPheGlnValGlyLysPheProGluAspPpH 718
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
2005 ACCACGGTTCAAGGACATCTTCAGAGCCACATCTACCTCGGGCCTT 2054
718 eGluSerCysAspSerIleThrGlyMetAsnLeuGluAlaTrpArgGlu 735
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
2055 TGTGAACGTCAGCGGTATCCCGAGGTGTAACCTATCAGCCTGCGAGGGA 2104
735 hr 735
2105 CA 2106
seq_name: /SID82/gcgdata/geneseq/geneseqn/NA2000.DAT.AAF21441
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seq_documentation_block:
ID AAF21441 standard; DNA; 6103 BP.
XX AC AAF21441;
XX DT 14-MAR-2001 (first entry)
XX DE Human eosinophil peroxidase polynucleotide fragment #3008.
XX KW Low adenose antisense oligonucleotide; phosphorothioate; allergy;
KW human; airway disorder; bronchoconstriction; lung inflammation;
KW surfactant depletion; respiratory; bronchodilator; antiinflammatory;
KW immunosuppressive; antiasthmatic; analgesic; hypotensive; cytostatic;
KW respiratory obstruction; pulmonary obstruction; impeded respiration;
KW surfactant hypoproduction; pulmonary vasoconstriction; asthma; RDS;
KW respiratory distress syndrome; pain; cystic fibrosis; allergic rhinitis;
KW pulmonary hypertension; emphysema; pulmonary transplantation rejection;
KW chronic obstructive pulmonary disease; pulmonary infection; bronchitis;
KW cancer; ss.
XX OS Homo sapiens.
XX PN WO200062736-A2.
XX XX 26-OCT-2000.
XX PF 24-MAR-2000; 2000WO-US08020.
XX PR 06-APR-1999; 99US-0127958.
XX PA (UYEC-) UNIV EAST CAROLINA.
XX PA (NYCE/) NYCE J W.
XX XX
PI Nyce JW;
XX XX
XX DR WPI; 2000-679539/66.
XX XX
XX PT Low adenose (A) content antisense oligonucleotides which do not
XX PT trigger adenosine receptors during metabolism, useful e.g. for treating
XX PT cancers and respiratory obstructions -
XX XX
XX PS Disclosure; Page 142-143; 1592pp; English.
XX XX
XX CC The present invention describes low adenose (A) content antisense
XX CC oligonucleotides and compositions (I) comprising them. In the antisense
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CC oligonucleotides the A is replaced by a 'Universal' or alternative base.
CC (I) can have respiratory, bronchodilator, antiinflammatory, analgesic,
CC immunosuppressive, antiasthmatic, hypotensive and cytostatic activities.
CC The antisense oligonucleotides and (I) can be used to down-regulate the
CC expression and or activity of target polypeptides associated with
CC lung/respiratory disorders and malignancies, such as stimulating and
CC activating peptide factors and transmitters, transcription factors,
CC immunoglobulins and antibodies, antibody receptors, cytokines and
CC chemokines, endogenously produced specific and non-specific enzymes,
CC binding proteins, adhesion molecules and their receptors, cytokine and
CC chemokine receptors, adenosine receptors, bradykinin receptors, central
CC nervous system (CNS) and peripheral nervous and non-nervous system
CC receptors, CNS and peripheral nervous and non-nervous system peptide
CC transmitters, defensins, growth factors, vasoactive peptides and
CC receptors, binding proteins and malignancy associated proteins. The
CC antisense oligonucleotides may be used in this way to treat disorders
CC including respiratory obstruction (especially pulmonary obstruction
CC and/or bronchoconstriction) and/or lung inflammation, allergy(ies)
CC and/or surfactant hypoproduction which are associated with a disease or
CC condition selected from pulmonary vasoconstriction, inflammation,
CC allergies, asthma, impeded respiration, respiratory distress syndrome
CC (RDS), pain, cystic fibrosis (CF), allergic rhinitis (AR), pulmonary
CC hypertension, emphysema, chronic obstructive pulmonary disease (COPD),
CC pulmonary transplantation rejection, pulmonary infections, bronchitis,
CC and/or cancer. AAF18434 to AAF21543 represent human polynucleotide
CC fragments and antisense oligonucleotides used in the exemplification of
XX the present invention.
SQ Sequence 6103 BP; 1218 A; 1863 C; 1727 G; 1287 T; 8 other;
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alignment_scores:
Quality: 1503.00 Length: 718
Ratio: 2.982 Gaps: 10
Percent Similarity: 70.195 Percent Identity: 43.733
alignment_block:
US-08-482-402A-3_COPY_1_848 x AAF21441 ..
Align seg 1/1 to: AAF21441 from: 1 to: 6103
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3594 GGGCAGTGGAGACCTCGTCTCGGAGACTCATAGCAGAGGCCAAGTT 3643
48 gGluValAspThrAlaMetTyrAlaThrMetGlnArgAsnLeuLysA 65
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
3644 GCTGTGGATGCTGCC...TACAATTGGACCCAGAGAGCATCAAGCAGC 3690
65 rg.....GlyIleLeuSerGlyAlaGlnLeuLeuSerPheSerLys 78
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
3691 GGTTCGCGAGCGGTTTCAGCCAGCCCATGGACCTCTCTCTACTTCAAA 3740
79 LeuProGluProThrSerGlyValIleAlaArgAlaAlaGluIleMetG 95
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
3741 CAACCGGTAGCAGCCACCAGGACAGTTGTTCGGCGCGCAGATTATATGCA 3790
95 uThrSerIleGlnAlaMetLysArgLysValAsnLeuLysThrGlnGln 112
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
3791 TGTGGCTTTGGGGCTGCTTGAAGAGAAGTTACAACCCAGCGGTCCGGAC 3840
112 erGlnHisProThrAspAlaLeuSerGluAspLeuSerIleIleAla 128
|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
3841 CCTTCATTGTCTACTGTATGCTTAACAGAACCCACACAGCTCGCGGTCTCC 3890
129 AsnMetSerGlyCysLeuProTyrMetLeuProLysCysProAsnTh 145
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3891 CAGCCAGTGGCTGTGCTCTCCGGGACACCGCGCGGCGCTGC..... 3932
145 rCysLeuAlaAsnLysTyrArgProIleThrGlyAlaCysAsnArgA 162
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3933 .....AGCGACAGTACCGCACCATCTACTGGCGGTGTCACACAAGA 3975
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179 ProValTyrGluAspGlyPheSerGlnProArgGlyTrpAsnProGlyPh 195
    : : : : :
4026 GCCAGATGAGGATGGGCTGCTCCCTCGCTCGGCTGGACCCCGAGCAG 4075
195 eLeuTyrAsnGlyPheProLeuProProValArgGluValThrArgHisV 212
    : : : : :
4076 GAGCGCAATGGCTTCCTCTCCCTCTGTCCGGCTGTCTCCCAACCA 4125
212 alileGlnValSerAsnGluValValThrAspAspArgTyrSerAsp 228
    : : : : :
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229 LeuLeuMetAlaTrpGlyGlnTyrIleAspHisAspIleAlaPheThrPr 245
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4176 ATGPTTCATGAGTGGGCCAGTTCTATTGACCATGACCTGGACTTCTCCC 4225
245 oGlnSerThrSerLysAlaAlaPheGlyGlyGlySerAspCysGlnMetT 262
    : : : : :
4226 GGAGTCCCGCCAGAGTGGCTTCACTGCGAGCGTGTGACTGTGAGAGA 4275
262 hrCysGluAsnGlnAsnProCysPheProIleGlnLeu...ProGluGlu 277
    : : : : :
4276 CCTGCGCCAGCTGCCGCCCTGCTTCCCATCAAGATCCCAACCAATGAC 4325
278 AlaArgProAlaAlaGlyThrAlaCysLeuProPheTyrArgSerSerAl 294
    : : : : :
4326 CCGCGCATCAAGAACCGGTGACTGTCATCCCTTCTTCCGCTCGGCACC 4375
294 aAlaCysGlyThrGlyAspGlnGlyAlaLeuPheGlyAsnLeuSerThrA 311
    : : : : :
4376 CTCATGCCCCCAACCAAGAAC..... 4397
311 laAsnProArgGlnGlnMetAsnGlyLeuThrSerPheLeuAspAlaSer 327
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4398 ..AGAGTCCGCAACCAAGATCAACCGCTCACTCCTTTGTGGAGCCACG 4445
328 ThrValTyrGlySerSerProAlaLeuGluArgGlnLeuArgAsnTrpTh 344
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4496 CAACTACTGGGGTGTGGCCATCAACCGCTTTCAGACACACGGCC 4545
361 rgAlaTyrLeuProPhe.....ValPro 368
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369 ProArgAlaProAlaAlaCysAlaProGluProGlyAsnProGlyGluTh 385
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4596 AACCGCTCG.....GC 4606
385 rArgGlyProCysPheLeuAlaGlyAspGlyArgAlaSerGluValProS 402
    : : : : :
4607 GCGCATCCCTGCTCTCGGAGGTGACCCGATCAACGGAACCCCA 4656
402 erLeuThrAlaLeuHisThrLeuTrpLeuArgGluHisAsnArgLeuAla 418
    : : : : :
4657 AACGGCAGCATGCACACCTCTTTATGCGAGAGCACAACCGCTGGCC 4706
419 AlaAlaLeuLysAlaLeuAsnAlaHisTrpSerAlaAspAlaValTyrG 435
    : : : : :
4707 ACCGAGCTGAGACCGCTCAATCCCGGTGGAATGGAGACAAACTGTACA 4756
435 nGluAlaArgLysValValGlyAlaLeuHisGlnIleThrLeuArgA 452
    : : : : :
4757 TGAGGCTCGGAAGATCATGGGGGCTGGTCCAGATCATCATCACCAGG 4806
452 sptYrIleProArgIleLeuGlyProGluAlaPheGlnGlnTyrValGly 468

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seq_name: /SIDS2/gcgdata/geneseq/geneseq/NA2000.DAT.AAF21436

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2995 CTGGGCTTGACCAAGATGACACAGCTGTGGTCCCGGAGCAACCGCAT 3044
417 uAlaAlaLeuLysAlaLeuAsnAlaHisTrpSerAlaAspAlaValT 434
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3045 TGCCACGAGGTGCTCAAGCTCAACCCGACTGGGACGCGACACCATCT 3094
434 yGlnGluAlaArgLysValValGlyAlaLeuHisGlnIleIleThrLeu 450
|||||
3095 ACTATGAGACCAAGGAAGATCTGGGTGGGAGATCCAGCACATCACCTAC 3144
451 ArgAspTyrIleProArgIleLeuLeuProGluAlaPheGlnIleTyrVa 467
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3145 CAGCACTGGCTCCCAAGATCTGGG...GAGGTGGGATGAGGACGT 3191
467 IclYProTyrGluGlyTyrAspSerThrAlaAsnProThrValSerAsnV 484
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3192 GGGAGATACCAAGCTACGACCCCGCATCAATGCTGSCATCTTCAACG 3241
484 alPheSerThrAlaAlaPheArgPheGlyHisAlaThrIleHisProLeu 500
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3242 COTTCGCCACCGCGCTTCAGGTTGGCCACACGCTTGTCAACCCACTG 3291
501 ValArgArgLeuAspAlaSerPhe.....GlnGluHisProAs 513
|||||
3292 CTTTACCGCTGGAGAGACTCTCAGGCCATGACAGATCAC..... 3336
513 pLeuProGlyLeuTrpLeuHisGlnAlaPhePheSerProTrpThrLeuL 530
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530 euArgGlyGlyLeuAspProLeuIleArgGlyLeuLeuAlaArgPro 546
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3377 TGAATGAGGGGGCATCGATCGCTCTCAGGGGCTGTTCGGGTGGCG 3426
547 AlaLysLeuGlnValGlnAspGlnLeuMetAsnGluGluLeuThrGluAr 563
|||||
3427 GGGAAATGCGGTGCCCTCGCAGCTGTGTAACCGGAGCTCACGGAGCG 3476
563 gLeuPheValLeuSerAsnSerSerThrLeuAspLeuAlaSerIleAsnL 580
|||||
3477 GCTGTCTCCATGGACACACAGCTGCTGACCTGGCGGCATCAACA 3526
580 euGlnArgGlyArgAspHisGlyLeuProGlyTyrAsnGluTrpArgGlu 596
|||||
3527 TCCAGCGGGCGGGACCAACCGGATCCACCCCTACACGACTACAGGTC 3576
597 pheCysGlyLeuProArgLeuGluThrProAlaAspLeuSerThrAlaI 613
|||||
3577 TACTCAATCTATCGCGGCACACAGCTTCGAGGACCTGAAATATGAGAT 3626
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3627 TAAAAACCTGAGATCCGGGAAACTGAAAGGTTGTATGCTCGACAC 3676
630 spAsnIleAspValTrpLeuGlyGlyLeuAlaGluAsnPheLeuProArg 646
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3677 TCAACATGACCTGTTCCGGGCTCGTGGTGAGGACCTGGTGGCTGCG 3726
647 AlaArgThrGlyProLeuPheAlaCysLeuIleGlyLysGlnMetLysAl 663
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663 alLeuArgAspGlyAspTrpPheTrpTrpGluAsnSerHisValPheThrA 680
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680 spAlaGlnArgArgGluLeuGluLysHisSerLeuSerArgValIleCys 696
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3827 CGGCCAGCTGACTCAGATCAAGCAGACGCTCGTGGCCAGGATCTCATGC 3876
697 AspAsnThr....GlyLeuThrArgValProMetAspAlaPheGlnValG1 712
|||||
3877 GACAACGGGACACATCACCCGGGTGCAGCGCAGCTGTTTCAGGTGGC 3926
712 yLysPheProGluAspPheGluSerCysAspSerIleThrGlyMetAsnL 729
|||||
3927 GGAGTTCCCTCAGGCTACGGCTACGGCAGCTGTGACGAGATCCCGAGGTGACC 3976
729 euCluAlaTrpArgGluThrPheProGlnAspLysCysGlyPhePro 745
|||||
3977 TCCGGGTGGCAGGAC.....TGC..... 3996
746 GluSerValGluAsnGlyAspPheValHisCysGluGluSerGlyArgAr 762
|||||
3997 .....TGTAAGAC..... 4005
762 gValLeuValTyrSerCysArg.....HisGlyT 772
|||||
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772 yGluLeuGlnGlyArgGluGlnLeu 780
|||||
4040 ATCATTTCCGAGGACACGCTCTCTT 4065
seq_name: /SID52/gcgdata/geneseq/geneseqn/NA1999.DAT.AAV99922
seq_documentation_block:
ID AAV99922 standard; cDNA; 6847 BP.
XX AAV99922;
XX
XX
DT 10-MAY-1999 (first entry)
XX
DE Melanoma associated antigen M650 gene.
XX
KW MG50; melanoma gene-50; melanoma associated antigen; human;
KW T cell epitope; cancer; lung cancer; rhabdomyosarcoma; diagnosis;
KW therapy; vaccine; ds.
XX
OS Homo sapiens.
XX
Key Location/Qualifiers
CDS 1..4491
FT polyA_signal /*tag= a
FT 6805..6810 /*tag= b
XX
PN W09855133-A1.
XX
PD 10-DEC-1998.
XX
PF 04-JUN-1998; 98WO-US11533.
XX
PR 06-JUN-1997; 97US-0870941.
XX
PA (REGC ) UNIV CALIFORNIA.
PA (UYSC-) UNIV SOUTHERN CALIFORNIA.
XX
PI Deans RJ, Kan-Mitchell J, Minev BR, Mitchell MS;
XX
DR WPI; 1999-080820/07.
DR P-PSDB; AAW81030.
XX
PT New MG50 melanoma associated antigen fragments - used to develop
PT products for the detection, treatment and prevention of
PT MG50-expressing cancers, e.g. melanoma, lung cancer or
PT rhabdomyosarcoma
XX
PS Claim 8; Page 38-45; 79pp; English.
XX
CC This is the nucleotide sequence of cDNA encoding a portion (see
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3145 CAGCACTGGCTCCGGAAGATCCTGGG...GAGGTGGCATGAGACGCT 3191
467 lGlyProTyrGluGlyTyrAspSerThrAlaAsnProThrValSerAsnV 484
    |||:|||||
3192 GGGAGAGTACCACGCGCTACGACCCCGGCATCAATGCTGGCATCTTCAACG 3241
    |||:|||||
484 alPheSerThrAlaAlaPheAphGheGlyHisAlaThrIleHisProLeu 500
    :|||:|||||
3242 CCTTCGCCACCGCGCCTTCAAGTTTGCCACACGCTTGTCAAACCCACTG 3291
    :|||:|||||
501 ValArgArgLeuAspAlaSerPhe.....GlnGluHisProAs 513
    :|||:|||||
3292 CTTTACCGGCTGGAGAGAACTTCACGCCCAATGCACAAGATCAC..... 3336
    |||||
513 pLeuProGlyLeuTrpLeuHisGlnAlaPhePheSerProTrpThrLeuL 530
    |||||
3337 .CTCCCC.....CTTCACAAAGCTTCTCTCTCCCTTCGGGATTG 3376
530 euArgGlyGlyLeuAspProLeuIleArgGlyLeuLeuAlaArgPro 546
    :|||:|||||
3377 TGAATGAGGCGGCATCGATCCGCTTCTCAGGGGCGCTGTCGGGTGGCG 3426
547 AlaLysLeuGlnValGlnAspGlnLeuMetAsnGlnGluLeuThrGluAr 563
    :|||:|||||
3427 GGGAAATGCGGTGTGCCCTCGCAGCTGTGAACACACGGAGCTCACGGAGCG 3476
563 qLeuPheValLeuSerAsnSerSerThrLeuAspLeuAlaSerIleAsnL 580
    |||||
3477 GCTGTTCTCCATGGCACACAGGTGGCTCTGGACCTGGCGGCCATCAACA 3526
580 euGlnArgGlyArgAspHisGlyLeuProGlyTyrAsnGluTrpArgGlu 596
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3527 TCCAGCGGGCGGGACACCGGATCCACCCCTACCACGACTACAGGGTC 3576
597 PheCysGlyLeuProArgLeuGluThrProAlaAspLeuSerThrAlaIl 613
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3577 TACTGCAATCTCGGGGCGCACACAGCTCGAGGACCTGAAATAATGAGAT 3626
613 eAlaSerArgSerValAlaAspLysIleLeuAspLeuTyrLysHisProA 630
    | :|||:|||||
3627 TAAAAACCTGAGATCCGGGAGAACTGAAAGGTTGTATGGCTCGACAC 3676
630 spAsnIleAspValTrpLeuGlyGlyLeuAlaGluAsnPheLeuProArg 646
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3677 TCAACATCGACCTGTTCCGGCGCTCGGTGGTGGAGACCTGGTGCTGGC 3726
647 AlaArgThrGlyProLeuPheAlaCysLeuIleGlyLysGlnMetLysAl 663
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3727 AGCCGGCTGGGCCCCACCCTGATGTCTCTCAGCACACACGTTCAAGCG 3776
663 aLeuArgAspGlyAspTrpPheTrpTrpGluAsnSerHisValPheThrA 680
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3777 CTTGGAGATGGGACAGGTTGTGGTATGAGAACCCCTGGGGTGTCTCCC 3826
680 spAlaGlnArgArgGluLeuGlyLysHisSerLeuSerArgValIleCys 696
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3827 CGGCCCACTCACTCAGATCAAGCAGACGCTCGCTGGCCAGGATCCTATGC 3876
697 AspAsnThr...GlyLeuThrArgValProMetAspAlaPheGlnValGl 712
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